Distributed Pyro Initiation System

Completed Technology Project (2012 - 2013)



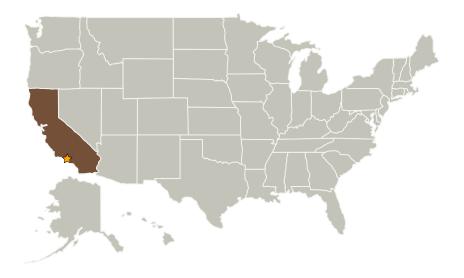
Project Introduction

Evaluate Current State of the Art; Define Critical Performance Requirements; Select Components; Smart Initiator or Smart Connector; Perform Detailed Cost/Benefit Analysis; Develop System Architecture; Build Prototype System; Qualify Prototype System to TRL 6; Develop Full Qualification Plan for implementation on JPL Flight Project.

Anticipated Benefits

We propose to replace the existing massive cable system with a simpler and much lighter "bussed" system significantly reducing cable mass and complexity. This can be used for a large range of NASA missions improving reliability and reducing mass.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Туре	Location
	Lead	NASA	Pasadena,
	Organization	Center	California

Primary U.S. Work Locations

California



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Center Innovation Fund: JPL CIF



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Project Management

Program Director:

Michael R Lapointe

Program Manager:

Fred Y Hadaegh

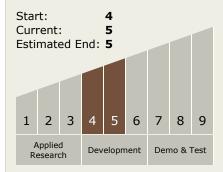
Project Manager:

Jonas Zmuidzinas

Principal Investigator:

Richard G Webster

Technology Maturity (TRL)



Technology Areas

Primary:

- TX07 Exploration Destination Systems
 - ☐ TX07.1 In-Situ Resource Utilization
 - □ TX07.1.3 Resource Processing for Production of Mission Consumables

